

1   **WHAT IS CLAIMED IS:**

2           1. A shock absorber adapted for a bicycle front fork, the shock absorber  
3 comprising:  
4           a bolt;  
5           a driving rod extending into and securely received in an open end of the bolt;  
6           two resilient elements movably mounted around the bolt; and  
7           a knob securely engaged with a free end of the driving rod to drive the driving  
8 rod and the bolt to rotate such that the two resilient elements are extended or compressed  
9 on the bolt in opposite directions.

10          2. The shock absorber as claimed in claim 1, wherein the bolt has a flange  
11 formed on a mediate portion of the bolt, a first screw and a second screw both formed on  
12 an outer periphery of the bolt, a rotational direction of the first screw is opposite to a  
13 rotational direction of the second screw.

14          3. The shock absorber as claimed in claim 1, wherein each of the two resilient  
15 elements is equipped with a first nut firmly connected to a first end of each of the  
16 resilient elements and threadingly and movably mounted on the bolt so that the two  
17 resilient elements are able to extend or compress in opposite directions as the knob is  
18 rotated,

19           the first nuts are immovable relative to the two resilient elements.

20          4. The shock absorber as claimed in claim 2, wherein each of the two resilient  
21 elements is equipped with a first nut firmly connected to a first end of each of the  
22 resilient elements and threadingly and movably mounted on the first screw and the  
23 second screw of the bolt so that the two resilient elements are able to extend or compress  
24 in opposite directions as the knob is rotated,

25           the first nuts are immovable relative to the two resilient elements.

1           5. The shock absorber as claimed in claim 3, wherein each of the two resilient  
2 elements is equipped with a second nut firmly connected to a second end of each of the  
3 resilient elements and immovable relative to the two resilient elements so that the two  
4 resilient elements are able to extend or compress in opposite directions as the knob is  
5 rotated.

6           6. The shock absorber as claimed in claim 4, wherein each of the two resilient  
7 elements is equipped with a second nut firmly connected to a second end of each of the  
8 resilient elements and immovable relative to the two resilient elements so that the two  
9 resilient elements are able to extend or compress in opposite directions as the knob is  
10 rotated.